

OCT 16 '87 9:39

DPM U194

Non

P04

FURANE PRODUCTS COMPANY

SUBSIDIARY OF
ROHM AND HAAS ADVANCED MATERIALS COMPANY
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HAZARD RATING
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT
- = SEE SECTION IV

Exposure
Reactivity
3 1
1 1
Special

MATERIAL SAFETY DATA SHEET

Kc

| MATERIAL | CODE | KEY | DOT HAZARD CLASS |
|----------------|-------------|-----|---------------------|
| EPIBOND 1544 B | | | Corrosive Liquid |
| FORMULA | DATE ISSUED | | |
| NA | 12/12/84 | | |

CHEMICAL NAME OR SYNONYMS

Aliphatic amines

I - APPROXIMATE COMPOSITIONAL INFORMATION

| | APPROX. WEIGHT % | TWA/TLV |
|--|------------------|--------------|
| Bis-(N-aminoethyl aminoethyl) imidazoline- | (50) | NE |
| 1,3-heptane | | |
| Diethylene triamine CAS# 111-40-0 | (25) | 1 PPM (skin) |
| Monoethanol amine CAS# 141-43-5 | (25) | 3 PPM |
| Silicon dioxide | (10) | NE |

II - PHYSICAL PROPERTY INFORMATION

| APPEARANCE, ODOR, pH | MELTING OR FREEZING POINT | BODILING POINT | VAPOR PRESSURE (mm Hg) | VISCOOSITY |
|---|---------------------------|----------------|------------------------|--------------------------------------|
| Light amber color paste ; mild ammoniacal odor. | NA | NA | NA | Jelly like paste |
| Appreciable | (0.5 | 1.05 | >1 | EVAPORATION RATE (BUTYL ACETATE = 1) |

III - FIRE AND EXPLOSION HAZARD INFORMATION

| FLASH POINT | AUTO IGNITION TEMPERATURE | LOWER EXPLOSION LIMIT(%) | UPPER EXPLOSION LIMIT(%) |
|-------------|---------------------------|--------------------------|--------------------------|
| 210 F RMCC | NA | 1.4 est. | 7.2 est. |

EXTINQUISHING MEDIA

FOAM "ALCOHOL"
 FOAM CO₂ DRY CHEMICAL WATER SPRAY OTHER

SPECIAL FIRE FIGHTING PROCEDURES

Wear breathing apparatus (MSHA/NIOSH-approved, pressure-demand, self-contained or equivalent.) and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

IV - HEALTH HAZARD INFORMATION**FURANE PRODUCTS RECOMMENDED WORK PLACE EXPOSURE LIMITS**

1 PPM (skin) - Diethylene triamine; 3 PPM - Monoethanol amine

EFFECTS OF OVEREXPOSURE

INHALATION: Vapors can irritate the nose and throat.

EYE CONTACT: Severely irritating to eyes; possibly permanent injury.

SKIN CONTACT: Severely irritating to skin; harmful if absorbed through the skin; fatal in large amounts.

INGESTION: Substance will cause burning and severe swelling of mouth, throat and abdomen.

DELAYED EFFECTED: Prolonged or repeated exposure can cause allergic reaction.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move subject to fresh air.

EYE AND SKIN CONTACT: Flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove and wash clothing before reuse.

INGESTION: If swallowed dilute by giving 2 glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

1544-B

(V - REACTIVITY INFORMATION)

| | |
|---|---|
| <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE | CONDITIONS TO AVOID Exposure to high temperatures i.e. 300° F or above |
| HAZARDOUS DECOMPOSITION PRODUCTS | |
| <input checked="" type="checkbox"/> NITROGEN OXIDES, ammonia, carbon monoxide and/or carbon dioxide | HAZARDOUS POLYMERIZATION |
| HAZARDOUS POLYMERIZATION | |
| <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR | CONDITIONS TO AVOID None |
| INCOMPATIBILITY (MATERIALS TO AVOID) | |
| <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER | Oxidizing agents, aldehydes, ketones, halides, acids |

(VI - SPILL OR LEAK PROCEDURE INFORMATION)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Use protective equipment. Clean up all traces of spill. Shovel as much of material as possible into dry, clean containers. On hard surfaces use absorbent material to pick up remainder; on loose surfaces shovel up contaminated layer. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

WASTE DISPOSAL METHODS

For discard this is a hazardous waste. RCRA #D-002 corrosive. Reportable quantity 1 lb. (CERCLA (Superfund) Sec. 103). Dilute with a suitable flammable solvent; then incinerate in approved equipment in accordance with local, state, (VII - SPECIAL PROTECTION INFORMATION) and federal regulations.

VENTILATION TYPE

Mechanical local exhaust ventilation at point of contaminant release.

RESPIRATORY PROTECTION

Wear suitable respirator (MSHA/NIOSH-approved or equivalent) where exposure limits are exceeded.

PROTECTIVE GLOVES

| | |
|--------------------|--|
| Impervious (Latex) | EYE PROTECTION Safety glasses (ANSI Z-87.1) |
|--------------------|--|

OTHER PROTECTIVE EQUIPMENT

Protective clothing, eyewash facility and safety shower.

(VII - STORAGE AND HANDLING INFORMATION)

| STORAGE TEMPERATURE | INDOOR | HEATED | REFRIGERATED | OUTDOOR |
|---------------------|--------|--------|--------------|---------|
| MAX 50 C MIN. | Yes | No | No | No |

Store away from excessive heat (e.g., steampipes, radiators), from sources of ignition, and from reactive materials. Do not store near food or feed. Corrosive to copper and brass on long storage.

(IX - TOXICITY INFORMATION)

IRRITATION: EYE - Corrosive; causes burns
SKIN - Corrosive; causes burns

(X - MISCELLANEOUS INFORMATION)

NOTE TO PHYSICIANS: Acute effects can include mucosal damage, severe laryngeal edema, and shock associated with corrosive agents. Possible mucosal may contra-indicate the use of gastric lavage.

NA = NOT APPLICABLE
C = CEILING VALUE

KEY

DATE OF ISSUE

12/12/84

SUPERSEDED
NEW

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